

Patent claims

1. A method for determining parameters for WAP-based transmissions via a wireless connection,
- 5 a) where short-term and long-term predictions about the quality of the wireless connection are taken as a basis for making decisions about the type of transmission,
- 10 b) where, for long-term predictions about the possibility of setting up the wireless connection or the quality of the wireless connection, decisions in the form of send and/or get or suspend or resume are made,
- 15 c) where, for short-term predictions regarding the quality of an existing wireless connection, decisions are made regarding:
- c1) the number of asynchronous transactions and/or
- c2) the delay of a retransmission and/or
- 20 c3) an alteration in the burst mode and/or
- c4) the packet size.
2. The method as claimed in the preceding claim, wherein even when there is a prediction about an
- 25 imminent cell change the packet size is adapted in order to terminate the transmission before the cell change and to wait with the next packet for the cell change to have taken place.
- 30 3. The method as claimed in one of the preceding claims, wherein, for a prediction which rules out packet loss during the transmission, the next packet group (burst) is transmitted in enforced fashion in order to ensure continual data transmission and to
- 35 minimize breaks.

4. The method as claimed in one of the preceding claims, wherein, for a prediction about a shortfall below a particular quality for the connection, the transmission and/or the retransmission of a packet is
5 delayed until the quality rises.

5. The method as claimed in one of the preceding claims, wherein, for a prediction about a shortfall below a particular quality, the packet size is reduced.
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6. The method as claimed in one of the preceding claims, wherein, for a prediction about a shortfall below a particular quality, the number of parallel transactions is altered, with the number being
15 increased and the size of the packets being reduced, in particular.

7. The method as claimed in one of the preceding claims, wherein, for a prediction about an excess over
20 a particular quality, the burst rate is increased.

8. The method as claimed in one of the preceding claims, wherein the method for predicting qualities is a multidimensional stochastic algorithm which, in
25 particular, uses covariance matrices, neural networks, genetic algorithms and/or simulated annealing.

9. The method as claimed in the preceding claim, wherein the algorithm calculates time-dependent
30 statements about the quality.

10. The method as claimed in one of the preceding claims, wherein the received signal code power (RSCP), the position, the direction, the level, the speed, the
35 received signal strength indicator (RSSI), the block size, the codec, the header compression method, SNR, the volume of traffic, the transmission delay, the

block error rate, the bit error rate and/or carrier to interference ratio (C/I) are included in the calculation and are taken into account as output.

- 5 11. A mobile terminal computer system, characterized by means and the setup thereof, which allow the execution of a method as claimed in one of the preceding method claims.
- 10 12. A piece of software for a mobile terminal which has a WAP stack, wherein a method as claimed in one of the preceding claims is implemented.
- 15 13. A data storage medium for a mobile terminal, characterized by the storage of a piece of software as claimed in the preceding software claim.